

EcoPaXX® Q-FP4

Polyamide 410

DSM Engineering Plastics

Message:

EcoPaXX® Q-FP4 is a Polyamide 410 (Nylon 410) material. This product is available in North America, Europe or Asia Pacific.

EcoPaXX® The main features of the Q-FP4 are:

Impact modification

environmental protection/green

General Information				
Additive	Impact modifier			
Features	Impact modification			
	Updatable resources			
	Good liquidity			

Physical	Dry	Conditioned	Unit	Test Method
Density	1.05	--	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	1.7	--	%	ISO 62
Biomass Content-Bio C/Total C ¹	56	--	%	ASTM D6866

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	1000	MPa	ISO 527-2
Tensile Stress (Break)	50.0	35.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	6.0	20	%	ISO 527-2
Fracture	30	> 50	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	20	--	kJ/m ²	ISO 179/1eA
23°C	75	75	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU

Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ²	250	--	°C	ISO 11357-3

Injection	Dry	Unit		
Drying Temperature	80		°C	
Drying Time	4.0 - 8.0		hr	
Rear Temperature	250 - 270		°C	

Middle Temperature	260 - 280	°C
Front Temperature	270 - 290	°C
Nozzle Temperature	270 - 300	°C
Processing (Melt) Temp	270 - 300	°C
Mold Temperature	60 - 100	°C
Injection Rate	Moderate-Fast	
Back Pressure	3.00 - 10.0	MPa
Screw Compression Ratio	2.5:1.0	

NOTE

1. Method B
2. 10°C/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

